

What is claimed is:

1. (cancelled)
2. (Amended) A screw for use in an extruder for carrying a rubber material supplied from a hopper port at the rear of the cylinder of the extruder by the screw, molding it into a predetermined sectional form and extruding it from a nozzle attached to the end of the cylinder, wherein
the height of a flight portion located below the hopper port of the screw is lower than the height of a flight portion on a downstream side and continuously changes in a peripheral direction at a predetermined angle.
3. (Amended) The screw according to claim 2 or 10, wherein the number of threads on an upstream side of the screw is made smaller than the number of threads on a downstream side.
4. (Amended) The screw for use in an extruder according to claim 2 or 10, wherein the interval of the threads on an upstream side is made wider than the interval of the threads on a downstream side.
5. (Amended) The screw for use in an extruder according to claim 2 or 10, wherein the diameters of

the threads on an upstream side of the screw are made larger than the diameters of the threads on a downstream side.

6. (Amended) The screw for use in an extruder according to any one of claims 2 to 5 and 10, wherein the height of the flight located below the hopper port is made 2 to 6 % smaller than the diameter of the screw.

7. (Amended) The process for producing a screw for extruders according to claim 11, wherein the amount of the peripheral portion cut away is 2 to 6 % of the diameter of the screw.

8. (Amended) A process for producing a tire rubber member by using the screw according to any one of claims 2 to 6 and 10.

9. (Amended) A tire rubber member manufactured by using the screw according to any one of claims 2 to 6 and 10 and having a gauge fluctuation of 0.15 mm or less.

10. (New) The screw according to claim 2, wherein a portion where the height of the flight portion is lower than the height of the flight portion on a downstream side has an angle of 180° or less.

11. (New) A process for producing a screw for use in an extruder for carrying a rubber material supplied from a hopper port at the rear of the cylinder of the extruder by the screw, molding it into a predetermined sectional form and extruding it from a nozzle attached to the end of the cylinder, the process comprising cutting away a peripheral portion of a flight portion located below the hopper port of an existing screw at a predetermined angle so that the height of the flight portion continuously changes in a peripheral direction to produce a screw having the flight portion located below the hopper port lower than the height of the flight portion on a downstream side.